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(54) DOUBLE LAYERED MEMBRANE-FORMING CATIONIC ELECTRODEPOSITION COATING COMPOSITION

(57)Abstract:

PURPOSE: To obtain a cationic electrodeposition coating composition capable of separating into two layers so as to form a layer rich in an epoxy-based cationic resin excellent in corrosion resistance to the side of a metal substrate and another layer rich in an acryl-based cationic resin excellent in weather resistance to the surface side.

CONSTITUTION: This double layered membrane forming cationic electrodeposition coating composition is obtained by dispersing (a) an amine modified epoxy-based cationic resin, (b) a self cross-linking acryl-based cationic resin having 100-200 hydroxyl value obtained by adding a half blocked diisocyanate to a cationic acrylic resin having a lower solubility parameter by at least 0.5 than that of the amine modified epoxy-based cationic resin, and (c) a blocked polyisocyanate curing agent into an aqueous medium containing a neutralizing agent.